

New host records of plant pathogens from Idaho

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Introduction

- New host –pathogen reports provide vital information helpful in the quick and accurate diagnosis of plant diseases.
- Provides valuable information to plant disease diagnosticians, extension educators, regulatory officials and other plant health professionals.
- First reports contribute to accurate diagnostics and help improve our knowledge of biogeography and host range in the region and pathogen biology.
- New pathogen reports and their accurate identification establish the baseline information about any emerging new plant pathogens and the epidemiology of the diseases caused by them.

Objectives

Presented herein are the first reports of plant pathogens on regional crops: ornamentals, turf grasses and weeds from Idaho. [2006-2009].



Sphaeralcea coccinea

Astragalus filipes

Sphaeralcea grossulariifolia

Sphaeralcea parvifolia

Cleome hassleriana

Fig.1. Symptoms of *Leveillula taurica* on different hosts

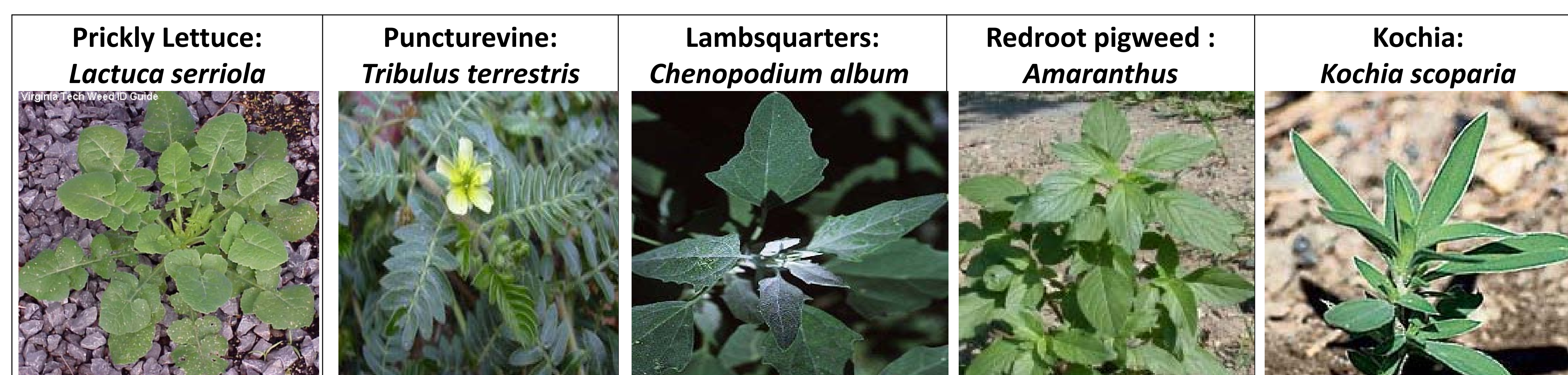


Fig.2. New alternative weed hosts of Iris Yellow Spot Virus [IYSV] in Idaho



Fig.3 Cucumber mosaic virus [CMV] on *Penstemon acuminatus*

Conclusions

- First reports are the best means of ensuring that records are widely disseminated, and that diagnosticians have reliable, highly specific records of disease occurrences.
- New host records can significantly help in further understanding of pathogen biology in addition to documenting the geographic range of a pathogen.
- New reports also contribute to taxonomic studies, including revision of species descriptions and production of keys for identification.
- Host-fungus indices are especially helpful in the diagnosis of plant diseases and can serve as primary resources for regulatory authorities.

References

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